

CLAIMS

What is claimed is:

1. An apparatus for spraying material on a non-vertical surface comprising:
 - a main frame having a longitudinal axis, said frame further having a first end and an opposite second end;
 - a plurality of front and back wheels rotatably mounted to said frame to allow movement of said frame across a non-vertical surface in a direction along said longitudinal axis;
 - an arm mounted to said frame and extending outwardly of said frame and said wheels in a direction away from said longitudinal axis;
 - a reservoir to hold material to be sprayed onto the non-vertical surface;
 - a plurality of outlets connected to said reservoir, said outlets mounted to said arm and opening downwardly toward said non-vertical surface, said outlets being positioned outwardly of said frame and said wheels dispensing said material outwardly of said wheels limiting contact between said material and said front and back wheels; and,
 - control means connected to said reservoir to controllably force material within said reservoir and out said outlets onto said non-vertical surface.
2. The apparatus of claim 1 and further comprising:
 - a chamber connected to said reservoir to receive material therefrom; and,
 - a plurality of conduits connecting separately each of said outlets to said chamber applying equal material pressure within said chamber to each of said outlets.

3. The apparatus of claim 2 wherein:

said arm includes a plurality of outlet mounts releasably receiving said outlets allowing said outlets to be adjusted to and from said non-vertical surface and positioned at various locations along said arm for pattern adjustment of material dispensed onto said non-vertical surface.

4. The apparatus of claim 3 and further comprising:

a spray gun receptacle mounted to said main frame; and,

a hand-holdable spray gun connected to said chamber and normally positioned in said receptacle but removable therefrom to manually spray material on said non-vertical surface.

5. The apparatus of claim 3 and further comprising:

a handle connected to said main frame to grasp and push said main frame in a first direction of travel along said longitudinal axis across said non-vertical surface while material is dispensed from said outlets.

6. The apparatus of claim 5 and further comprising:

handle-mounting means on said main frame and connected to said handle operable to allow adjustment of said handle in a first position relative to said main frame at a desired acute angle.

7. The apparatus of claim 6 wherein:

said main frame includes wheel mounting means connected to said plurality of wheels operable to allow adjustment of spacing between said wheels in a direction perpendicular to said longitudinal axis.

8. The apparatus of claim 7 wherein:

said main frame includes mounting means connected to said arm operable to allow adjustment of said outlets relative to said non-vertical surface.

9. The apparatus of claim 8 and further comprising:

a hose connecting said reservoir to said chamber to locate said reservoir remotely relative to said main frame, said hose extending away from said main frame on a side opposite of said arm allowing positioning said hose apart from material sprayed on said non-vertical surface by said outlets.

10. The apparatus of claim 9 and further comprising:

said wheels include two front wheels and two back wheels, said arm positions said outlets along a line extending perpendicular from said longitudinal axis between said front wheels and said back wheels; and wherein;

said handle means operable to allow said handle to pivot away from said first position over said first end of said frame to a second position over said opposite second end of said frame to allow said handle to be pushed and said main frame to be moved in a direction reverse from said first direction of travel.

11. A sprayer for dispensing flowable roof coating onto a roof comprising:
a reservoir of flowable roof coating locatable at ground level apart from a roof to be coated;
a wheeled platform with a longitudinal axis locatable atop the roof to be coated;
a handle connected to said platform to grasp and move said platform across the roof;
a boom mounted to said platform and extending to the side thereof;
a plurality of nozzles mounted to said boom outwardly of said platform;
conduits connecting said nozzles to said reservoir; and,
a pump connected to said reservoir operable to force flowable roof coating therein through said conduits and out said nozzles to the side of said platform as said platform is moved across said roof.

12. The sprayer of claim 11 wherein:
said platform includes adjustment means allowing adjustment of vertical spacing of said nozzles relative to said roof, spacing of said nozzles apart from said longitudinal axis, spacing of nozzles relative to each other, positioning of said handle relative to said platform, and spacing of said wheels.

13. The sprayer of claim 12 and further comprising:
a manifold on said platform ;
a plurality of conduits individually connecting said nozzles to said manifold, and,

a hose connecting said reservoir to said manifold, said hose extending in a direction away from said nozzles to be apart from material sprayed onto said roof.

14. A method of spraying a coating onto a roof comprising the steps of:

- providing a reservoir of flowable roof coating and a carriage having wheels and a plurality of nozzles positioned aside said carriage;
- positioning said carriage atop a roof;
- positioning said reservoir atop ground apart from said roof;
- connecting said nozzles on said carriage to said reservoir;
- moving said carriage across the roof;
- forcing said flowable roof coating from said reservoir to said nozzles and then simultaneously from said plurality of nozzles onto said roof.

15. The method of claim 14 wherein:

- said reservoir is connected to said carriage via a hose, and comprising the additional steps of:
 - positioning said hose on a side of said carriage opposite of said nozzles to keep said hose apart from coating sprayed onto said roof by said nozzles; and,
 - keeping said nozzles aside said carriage to keep said coating sprayed onto said roof from contacting said wheels of said carriage.

16. The method of claim 15 and comprising the additional steps of:

- adjusting the spacing of said wheels on said carriage to provide a desired carriage footprint;
- adjusting the spacing of said nozzles from said roof to provide a desired spray pattern;
- providing a handle connected to said carriage and arranged at an acute angle relative to the carriage; and,
- adjusting said handle by changing said acute angle to facilitate grasping and pushing said carriage across said roof.

17. The method of claim 16 and comprising the additional steps of:

- locating said handle to extend over a first end of said carriage;
- pushing said handle in a first direction across said roof;
- changing said acute angle to allow grasping and pushing said handle on an end of said carriage opposite said first end; and
- pushing said handle in a second direction opposite to said first direction across said roof.